

Question Two

Discuss why none of molecules above can exist as geometric isomers.

In order to exist as geometric isomer, the molecule must contain double bond.

For pent-1-yne and but-1-yne, the molecules does not contain double bond.

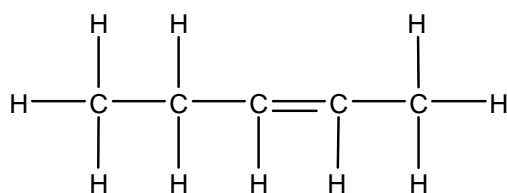
On top of the double bond requirement, the group on each of the carbon in the double bond has to be different.

None of the alkene molecule above meet the requirement as the group bonded in the carbon containing the double bond are the same (either CH_3 or H)

Question Three

Draw a structural isomer of 2-methylbut-1-ene that can exist as geometric isomer.

cis pent-2-ene



trans pent-2-ene

